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Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/826,919
Filing Date	April 16, 2004
First Named Inventor	Alexander Deiters
Group Art Unit	1632
Examiner Name	Unassigned
Attorney Docket Number	54-000250US
Date Submitted	November 5, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)			
/K.G./	1	WO	2002/086075		The Scripps Research Institute	10-31-2002	
/K.G./	2	WO	2002/085923		The Scripps Research Institute	10-31-2002	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/K.G./	3	Anderson et al., (2002) <i>Exploring the Limits of Codon and Anticodon Size, Chemistry and Biology</i> , 9:237-244	
/K.G./	4	Blake (2001) <i>Cellular screening assays using fluorescence microscopy</i> <i>Curr. Opin. Pharmacol.</i> , 1:533-539	
/K.G./	5	Bolletta, F. et al., (1996) <i>Synthesis and Photophysical Properties of Fluorescent Derivatives of Methylmercury, Organometallics</i> 15:2415-17	
/K.G./	6	Carboni, B et al., (1993) <i>Aliphatic Amino Azides as Key Building Blocks for Efficient Polyamine Syntheses, J. Org. Chem.</i> 58:3736-3741	

Examiner Signature	/Kagnew Gebreyesus/	Date Considered	03/07/2008
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/K.G./	7	Chin et al., (2002), <i>Addition of p-Azido-L-phenylalanine to the Genetic code of Escherichia coli</i> , <u>J. Am. Chem. Soc.</u> 124:9026-9027	
↑	8	Chin and Schultz, (2002), <i>In vivo Photocrosslinking with Unnatural Amino Acid Mutagenesis</i> , <u>Chem BioChem</u> 11:1135-1137	
	9	Chin, et al., (2002), <i>Addition of a Photocrosslinker to the Genetic Code of Escherichia coli</i> , <u>Proc. Natl. Acad. Sci. U. S. A.</u> 99:11020-11024	
	10	Chin, et al., (2003) <i>Progress toward an expanded eukaryotic genetic code</i> , <u>Chem. Biol.</u> 10(6):511-519	
	11	Chin, et al., (2003) <i>An expanded eukaryotic genetic code</i> , <u>Science</u> , 301(5635):964-7	
	12	Cornish, et al., (1996) <i>Site-Specific Protein Modification Using a Ketone Handle</i> , <u>Journal of the American Chemical Society</u> 118:8150-8151	
	13	Crisp, G. T.; & Gore, J. (1997) <i>Preparation of Biological Labels with Acetylenic Linker Arms</i> , <u>Tetrahedron</u> 53:1505-1522	
	14	Feng et al., (2003), <i>Expanding tRNA recognition of a tRNA synthetase by a single amino acid change</i> , <u>PNAS</u> 100(10): 5676-5681.	
	15	Forster et al., (2003) <i>Programming peptidomimetic synthetases by translating genetic codes designed de novo</i> <u>PNAS</u> 100(11):6353-6357	
	16	Francklyn et al., (2002), <i>Aminoacyl-tRNA synthetases: Versatile players in the changing theater of translation</i> ; <u>RNA</u> , 8:1363-1372	
	17	Griffin, et al., (1998) <i>Specific covalent labeling of recombinant protein molecules inside live cells</i> , <u>Science</u> 281:269-272.	
	18	Hamano-Takaku et al., (2000) <i>A mutant Escherichia coli Tyrosyl-tRNA Synthetase Utilizes the Unnatural Amino Acid Azatyrosine More Efficiently than Tyrosine</i> , <u>Journal of Biological Chemistry</u> , 275(51):40324-40328	
	19	Kiga et al. (2002), <i>An engineered Escherichia coli tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system</i> , <u>PNAS</u> 99(15): 9715-9723	
	20	Klick et al., (2002) <i>Incorporation of azides into recombinant proteins for chemoselective modification by the Staudinger ligation</i> , <u>PNAS</u> 99:19-24	
	21	Lemieux, & Bertozzi, (1996) <i>Chemoselective ligation reactions with proteins, oligosaccharides and cells</i> , <u>TIBTECH</u> , 16:506-513	
	22	Liu, D.R. & Schultz, P.G. (1999) <i>Progress toward the evolution of an organism with an expanded genetic code</i> . <u>PNAS United States</u> 96:4780-4785	
/K.G./	23	Magliery, (2001) <i>Expanding the Genetic Code: Selection of Efficient Suppressors of Four-</i>	
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/K.G./		base Codons and Identification of "Shifty" Four-base Codons with a Library Approach in <i>Escherichia coli</i> , <u>J. Mol. Biol.</u> 307: 755-769	
↑	24	Mahal, et al., (1997) <i>Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis</i> , <u>Science</u> , 276:1125-1128	
	25	Padwa, A. (1991) <i>Intermolecular 1,3-Dipolar Cycloadditions in Comprehensive Organic Synthesis, Vol. 4</i> , Ed. Trost, B. M., Pergamon, Oxford, p. 1069-1109	
	26	M. Pasternak, et al., (2000), <i>A new orthogonal suppressor tRNA/aminoacyl-tRNA synthetase pair for evolving an organism with an expanded genetic code</i> , <u>Helvetica Chimica Acta</u> 83:2277	
	27	Rostovtsev, et al., (2002) <i>A stepwise Huisgen cycloaddition process: copper(I)-catalyzed regioselective "ligation" of azides and terminal alkynes</i> , <u>Angew. Chem. Int. Ed.</u> 41:2596-2599	
	28	Speers, et al., (2003) <i>Activity-based protein profiling in vivo using a copper(I)-catalyzed azide-alkyne [3 + 2] cycloaddition</i> , <u>J. Am. Chem. Soc.</u> , 125:4686-4687	
	29	Tornøe, et al., (2002) <i>Peptidotriazoles on solid phase: [1,2,3]-triazoles by regioselective copper(I)-catalyzed 1,3-dipolar cycloadditions of terminal alkynes to azides</i> , <u>Org. Chem.</u> 67:3057-3064	
	30	Wang, et al., (2001), <i>Expanding the genetic code of Escherichia coli</i> , <u>Science</u> 292:498-500	
	31	Wang, et al., (2002), <i>Adding L-3-(2-naphthyl)alanine to the genetic code of E-coli</i> , <u>J. Am. Chem. Soc.</u> 124:1836-1837	
	32	Wang and Schultz, (2002), <i>Expanding the Genetic Code</i> , <u>Chem. Comm.</u> 1-10	
	33	Wang, et al., (2003) <i>Addition of the keto functional group to the genetic code of Escherichia coli</i> , <u>Proc. Natl. Acad. Sci.</u> , 100:56-61	
	34	Wang, et al., (2003) <i>Bioconjugation by copper(I)-catalyzed azide-alkyne [3 + 2] cycloaddition</i> , <u>J. Am. Chem. Soc.</u> , 125:3192-3193	
	35	Wouters, et al., (2001) <i>Imaging biochemistry inside cells</i> , <u>Trends in Cell Biology</u> 11:203-211	
	36	Zacharias, et al., (2000) <i>Recent advances in technology for measuring and manipulating cell signals</i> , <u>Curr. Opin. Neurobiol.</u> , 10:416-421	
	37	Zhang et al., (2002), <i>The selective incorporation of alkenes into proteins in Escherichia coli</i> , <u>Angewandte Chemie. International Ed. in English</u> 41:2840-2842	
/K.G./	38	Zhang, et al., (2003) <i>A new strategy for the site-specific modification of proteins in vivo</i> , <u>Biochemistry</u> , 42:6735-6746	

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